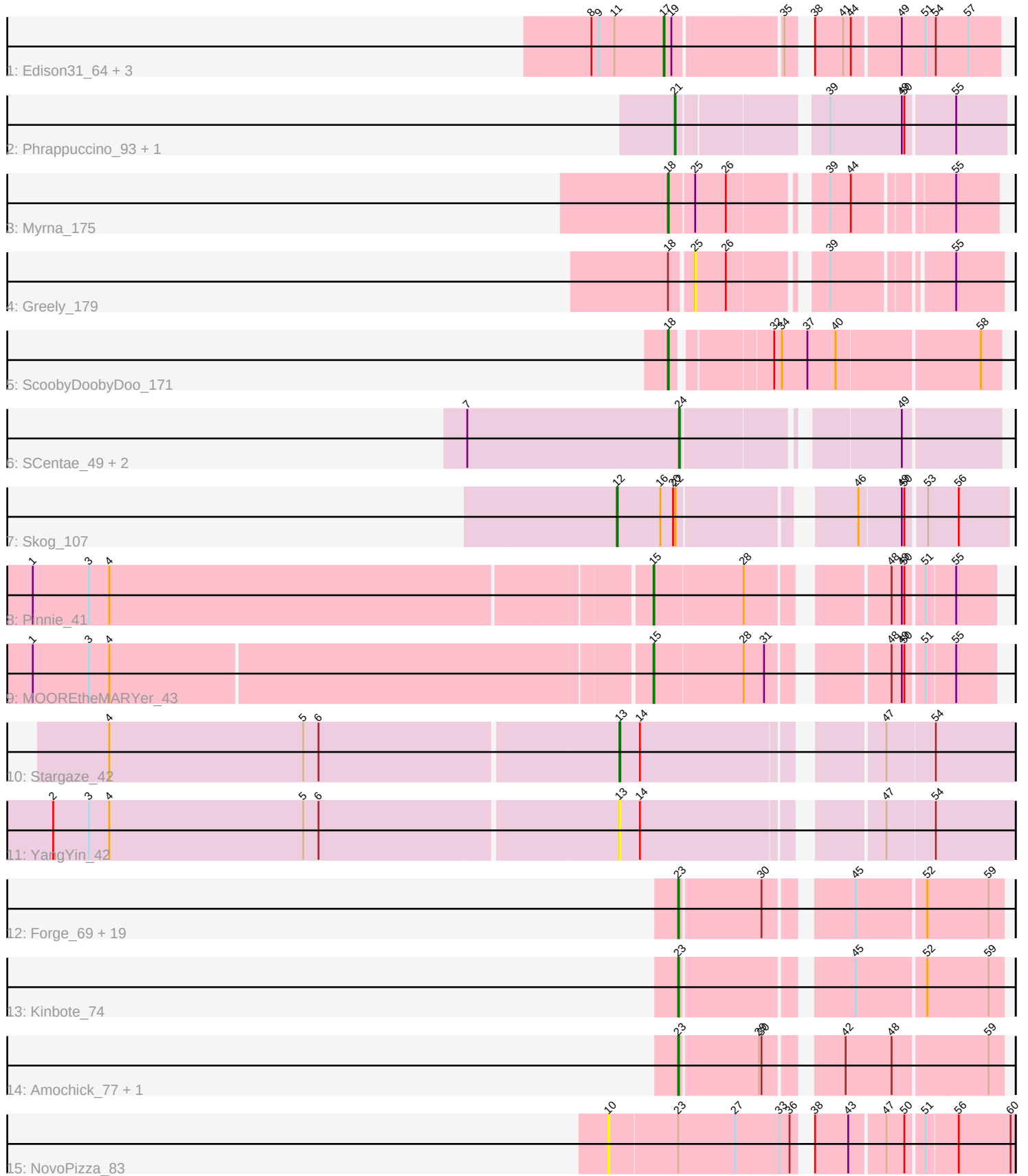


Pham 239003



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 239003 Report

This analysis was run 02/07/26 on database version 634.

Pham number 239003 has 41 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Edison31_64, Twister_66, WalterMcMickey_66, Topanga_64
- Track 2 : Phrappuccino_93, Settecandela_93
- Track 3 : Myrna_175
- Track 4 : Greely_179
- Track 5 : ScoobyDoobyDoo_171
- Track 6 : SCentae_49, Pupper_49, CherryTomatoes_51
- Track 7 : Skog_107
- Track 8 : Pinnie_41
- Track 9 : MOOREtheMARYer_43
- Track 10 : Stargaze_42
- Track 11 : YangYin_42
- Track 12 : Forge_69, Dewey_69, Gravaillia_70, Hadrien_73, BloominB_76, Evanescence_75, Gancho_75, LilHazelNut_76, Webster2_76, Ubuntu_76, Amymech_76, Ein37_76, Hail_69, Wishmaker_69, Luna22_69, OBUpride_75, HH92_75, DeepSoil15_76, Luke_73, Giles_69
- Track 13 : Kinbote_74
- Track 14 : Amochick_77, Daegal_78
- Track 15 : NovoPizza_83

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 23, it was called in 22 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_77, Amymech_76, BloominB_76, Daegal_78, DeepSoil15_76, Dewey_69, Ein37_76, Evanescence_75, Forge_69, Gancho_75, Giles_69, Gravaillia_70, HH92_75, Hadrien_73, Hail_69, Kinbote_74, LilHazelNut_76, Luke_73, Luna22_69, OBUpride_75, Ubuntu_76, Webster2_76, Wishmaker_69,

Genes that have the "Most Annotated" start but do not call it:

- NovoPizza_83,

Genes that do not have the "Most Annotated" start:

• CherryTomatoes_51, Edison31_64, Greely_179, MOOREtheMARYer_43, Myrna_175, Phrappuccino_93, Pinnie_41, Pupper_49, SCentae_49, ScoobyDoobyDoo_171, Settecandela_93, Skog_107, Stargaze_42, Topanga_64, Twister_66, WalterMcMickey_66, YangYin_42,

Summary by start number:

Start 10:

- Found in 1 of 41 (2.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NovoPizza_83 (Q),

Start 12:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Skog_107 (DO),

Start 13:

- Found in 2 of 41 (4.9%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stargaze_42 (G5), YangYin_42 (G5),

Start 15:

- Found in 2 of 41 (4.9%) of genes in pham
- Manual Annotations of this start: 2 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MOOREtheMARYer_43 (G3), Pinnie_41 (G3),

Start 17:

- Found in 4 of 41 (9.8%) of genes in pham
- Manual Annotations of this start: 4 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Edison31_64 (A10), Topanga_64 (A10), Twister_66 (A10), WalterMcMickey_66 (A10),

Start 18:

- Found in 3 of 41 (7.3%) of genes in pham
- Manual Annotations of this start: 2 of 37
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Myrna_175 (C2), ScoobyDoobyDoo_171 (C2),

Start 21:

- Found in 2 of 41 (4.9%) of genes in pham
- Manual Annotations of this start: 2 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino_93 (AA), Settecandela_93 (AA),

Start 23:

- Found in 24 of 41 (58.5%) of genes in pham
- Manual Annotations of this start: 22 of 37
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Amochick_77 (Q), Amymech_76 (Q), BloominB_76 (Q), Daegal_78 (Q), DeepSoil15_76 (Q), Dewey_69 (Q), Ein37_76 (Q), Evanesce_75 (Q), Forge_69 (Q), Gancho_75 (Q), Giles_69 (Q), Gravaillia_70 (Q), HH92_75 (Q), Hadrien_73 (Q), Hail_69 (Q), Kinbote_74 (Q), LilHazelNut_76 (Q), Luke_73 (Q), Luna22_69 (Q), OBUpride_75 (Q), Ubuntu_76 (Q), Webster2_76 (Q), Wishmaker_69 (Q),

Start 24:

- Found in 3 of 41 (7.3%) of genes in pham
- Manual Annotations of this start: 3 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_51 (DO), Pupper_49 (DO), SCentae_49 (DO),

Start 25:

- Found in 2 of 41 (4.9%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Greely_179 (C2),

Summary by clusters:

There are 7 clusters represented in this pham: AA, DO, G5, G3, A10, Q, C2,

Info for manual annotations of cluster A10:

- Start number 17 was manually annotated 4 times for cluster A10.

Info for manual annotations of cluster AA:

- Start number 21 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster C2:

- Start number 18 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster DO:

- Start number 12 was manually annotated 1 time for cluster DO.
- Start number 24 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster G3:

- Start number 15 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G5:

- Start number 13 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster Q:

- Start number 23 was manually annotated 22 times for cluster Q.

Gene Information:

Gene: Amochick_77 Start: 49732, Stop: 50073, Start Num: 23
Candidate Starts for Amochick_77:
(Start: 23 @49732 has 22 MA's), (29, 49822), (30, 49825), (42, 49897), (48, 49951), (59, 50056),

Gene: Amymech_76 Start: 49185, Stop: 49526, Start Num: 23
Candidate Starts for Amymech_76:
(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: BloominB_76 Start: 49185, Stop: 49526, Start Num: 23
Candidate Starts for BloominB_76:
(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: CherryTomatoes_51 Start: 16838, Stop: 17167, Start Num: 24
Candidate Starts for CherryTomatoes_51:
(7, 16589), (Start: 24 @16838 has 3 MA's), (49, 17060),

Gene: Daegal_78 Start: 50291, Stop: 50632, Start Num: 23
Candidate Starts for Daegal_78:
(Start: 23 @50291 has 22 MA's), (29, 50381), (30, 50384), (42, 50456), (48, 50510), (59, 50615),

Gene: DeepSoil15_76 Start: 49185, Stop: 49526, Start Num: 23
Candidate Starts for DeepSoil15_76:
(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Dewey_69 Start: 49185, Stop: 49526, Start Num: 23
Candidate Starts for Dewey_69:
(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Edison31_64 Start: 41955, Stop: 41608, Start Num: 17
Candidate Starts for Edison31_64:
(8, 42039), (9, 42030), (11, 42012), (Start: 17 @41955 has 4 MA's), (19, 41946), (35, 41829), (38, 41814), (41, 41781), (44, 41772), (49, 41718), (51, 41691), (54, 41679), (57, 41643),

Gene: Ein37_76 Start: 49185, Stop: 49526, Start Num: 23
Candidate Starts for Ein37_76:
(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Evanesce_75 Start: 49185, Stop: 49526, Start Num: 23
Candidate Starts for Evanesce_75:
(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Forge_69 Start: 49185, Stop: 49526, Start Num: 23
Candidate Starts for Forge_69:
(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Gancho_75 Start: 48960, Stop: 49301, Start Num: 23
Candidate Starts for Gancho_75:
(Start: 23 @48960 has 22 MA's), (30, 49053), (45, 49137), (52, 49215), (59, 49284),

Gene: Giles_69 Start: 49185, Stop: 49526, Start Num: 23
Candidate Starts for Giles_69:
(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Gravaillia_70 Start: 49241, Stop: 49582, Start Num: 23

Candidate Starts for Gravaillia_70:

(Start: 23 @49241 has 2 MA's), (30, 49334), (45, 49418), (52, 49496), (59, 49565),

Gene: Greely_179 Start: 97186, Stop: 96878, Start Num: 25

Candidate Starts for Greely_179:

(Start: 18 @97210 has 2 MA's), (25, 97186), (26, 97150), (39, 97057), (55, 96931),

Gene: HH92_75 Start: 49185, Stop: 49526, Start Num: 23

Candidate Starts for HH92_75:

(Start: 23 @49185 has 2 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Hadrien_73 Start: 49185, Stop: 49526, Start Num: 23

Candidate Starts for Hadrien_73:

(Start: 23 @49185 has 2 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Hail_69 Start: 49185, Stop: 49526, Start Num: 23

Candidate Starts for Hail_69:

(Start: 23 @49185 has 2 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Kinbote_74 Start: 49185, Stop: 49526, Start Num: 23

Candidate Starts for Kinbote_74:

(Start: 23 @49185 has 2 MA's), (45, 49362), (52, 49440), (59, 49509),

Gene: LilHazelNut_76 Start: 49185, Stop: 49526, Start Num: 23

Candidate Starts for LilHazelNut_76:

(Start: 23 @49185 has 2 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Luke_73 Start: 49140, Stop: 49481, Start Num: 23

Candidate Starts for Luke_73:

(Start: 23 @49140 has 2 MA's), (30, 49233), (45, 49317), (52, 49395), (59, 49464),

Gene: Luna22_69 Start: 49169, Stop: 49510, Start Num: 23

Candidate Starts for Luna22_69:

(Start: 23 @49169 has 2 MA's), (30, 49262), (45, 49346), (52, 49424), (59, 49493),

Gene: MOOREtheMARYer_43 Start: 33114, Stop: 33461, Start Num: 15

Candidate Starts for MOOREtheMARYer_43:

(1, 32409), (3, 32475), (4, 32499), (Start: 15 @33114 has 2 MA's), (28, 33213), (31, 33237), (48, 33351), (49, 33363), (50, 33366), (51, 33384), (55, 33417),

Gene: Myrna_175 Start: 96825, Stop: 96493, Start Num: 18

Candidate Starts for Myrna_175:

(Start: 18 @96825 has 2 MA's), (25, 96798), (26, 96762), (39, 96669), (44, 96645), (55, 96540),

Gene: NovoPizza_83 Start: 51368, Stop: 51796, Start Num: 10

Candidate Starts for NovoPizza_83:

(10, 51368), (Start: 23 @51446 has 2 MA's), (27, 51509), (33, 51560), (36, 51572), (38, 51581), (43, 51620), (47, 51659), (50, 51680), (51, 51698), (56, 51734), (60, 51791),

Gene: OBUpride_75 Start: 49229, Stop: 49570, Start Num: 23

Candidate Starts for OBUpride_75:

(Start: 23 @49229 has 2 MA's), (30, 49322), (45, 49406), (52, 49484), (59, 49553),

Gene: Phrappuccino_93 Start: 71530, Stop: 71180, Start Num: 21

Candidate Starts for Phrappuccino_93:

(Start: 21 @71530 has 2 MA's), (39, 71377), (49, 71293), (50, 71290), (55, 71236),

Gene: Pinnie_41 Start: 32819, Stop: 33166, Start Num: 15

Candidate Starts for Pinnie_41:

(1, 32117), (3, 32183), (4, 32207), (Start: 15 @32819 has 2 MA's), (28, 32918), (48, 33056), (49, 33068), (50, 33071), (51, 33089), (55, 33122),

Gene: Pupper_49 Start: 16677, Stop: 17006, Start Num: 24

Candidate Starts for Pupper_49:

(7, 16428), (Start: 24 @16677 has 3 MA's), (49, 16899),

Gene: SCentae_49 Start: 16676, Stop: 17005, Start Num: 24

Candidate Starts for SCentae_49:

(7, 16427), (Start: 24 @16676 has 3 MA's), (49, 16898),

Gene: ScoobyDoobyDoo_171 Start: 93923, Stop: 93567, Start Num: 18

Candidate Starts for ScoobyDoobyDoo_171:

(Start: 18 @93923 has 2 MA's), (32, 93821), (34, 93812), (37, 93782), (40, 93749), (58, 93590),

Gene: Settecandela_93 Start: 71530, Stop: 71180, Start Num: 21

Candidate Starts for Settecandela_93:

(Start: 21 @71530 has 2 MA's), (39, 71377), (49, 71293), (50, 71290), (55, 71236),

Gene: Skog_107 Start: 43891, Stop: 44298, Start Num: 12

Candidate Starts for Skog_107:

(Start: 12 @43891 has 1 MA's), (16, 43942), (20, 43957), (22, 43960), (46, 44134), (49, 44182), (50, 44185), (53, 44206), (56, 44242),

Gene: Stargaze_42 Start: 32780, Stop: 33187, Start Num: 13

Candidate Starts for Stargaze_42:

(4, 32198), (5, 32426), (6, 32444), (Start: 13 @32780 has 1 MA's), (14, 32804), (47, 33050), (54, 33101),

Gene: Topanga_64 Start: 41958, Stop: 41611, Start Num: 17

Candidate Starts for Topanga_64:

(8, 42042), (9, 42033), (11, 42015), (Start: 17 @41958 has 4 MA's), (19, 41949), (35, 41832), (38, 41817), (41, 41784), (44, 41775), (49, 41721), (51, 41694), (54, 41682), (57, 41646),

Gene: Twister_66 Start: 42079, Stop: 41732, Start Num: 17

Candidate Starts for Twister_66:

(8, 42163), (9, 42154), (11, 42136), (Start: 17 @42079 has 4 MA's), (19, 42070), (35, 41953), (38, 41938), (41, 41905), (44, 41896), (49, 41842), (51, 41815), (54, 41803), (57, 41767),

Gene: Ubuntu_76 Start: 49185, Stop: 49526, Start Num: 23

Candidate Starts for Ubuntu_76:

(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: WalterMcMickey_66 Start: 42079, Stop: 41732, Start Num: 17

Candidate Starts for WalterMcMickey_66:

(8, 42163), (9, 42154), (11, 42136), (Start: 17 @42079 has 4 MA's), (19, 42070), (35, 41953), (38, 41938), (41, 41905), (44, 41896), (49, 41842), (51, 41815), (54, 41803), (57, 41767),

Gene: Webster2_76 Start: 49185, Stop: 49526, Start Num: 23

Candidate Starts for Webster2_76:

(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: Wishmaker_69 Start: 49185, Stop: 49526, Start Num: 23

Candidate Starts for Wishmaker_69:

(Start: 23 @49185 has 22 MA's), (30, 49278), (45, 49362), (52, 49440), (59, 49509),

Gene: YangYin_42 Start: 32806, Stop: 33213, Start Num: 13

Candidate Starts for YangYin_42:

(2, 32158), (3, 32200), (4, 32224), (5, 32452), (6, 32470), (Start: 13 @32806 has 1 MA's), (14, 32830), (47, 33076), (54, 33127),